LNP™ LUBRICOMP™ Compound DL0039EF

(PC+PTFE) Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP LUBRICOMP DL-0039EF compound is based on Polycarbonate (PC) resin containing 15% PTFE. Added features of this grade include: Flame Retardant, Wear Resistant.

UL Yellow Card Link E207780-103786784

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	**0.2**	mm/mm	ASTM D 955
Mold Shrinkage, TD	**0.7**	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**2090**	MPa	ISO 527
Yield stress	**52**	MPa	ISO 527
Yield strain	**5.5**	%	ISO 527
Stress at break	**44**	MPa	ISO 527
Strain at break	**27**	%	ISO 527
Flexural modulus	**2090**	MPa	ISO 178
Flexural strength	**77**	MPa	ISO 178
Izod impact strength, +23°C, 4mm	**200**	kJ/m²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	**10**	kJ/m²	ISO 180/1A
ASTM Data			
Tensile Modulus	**2210**	MPa	ASTM D 638
Tensile Strength at Yield	**53**	MPa	ASTM D 638
Tensile Strength at Break	**44**	MPa	ASTM D 638
Elongation at Yield	**5.4**	%	ASTM D 638
Elongation at Break	**22**	%	ASTM D 638
Flexural Modulus	**2240**	MPa	ASTM D 790

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**125**	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**137**	°C	ISO 75-1/-2
Burning behav. at thickness h	**V-1**	class	IEC 60695-11-10
Thickness tested	**1.2**	mm	-
ASTM Data			
Coefficient of Thermal Expansion, MD	**75.1**	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	**76**	E-6/K	ASTM D 696
DTUL @ 66 psi	**137**	°C	ASTM D 648
DTUL @ 264 psi	**126**	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	**0.18**	%	Sim. to ISO 62
Water Absorption, 24hr	**0.11**	%	ASTM D 570
Density	**1310**	kg/m³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**120**	°C	-
Pre-drying - Time	**4**	h	-
Processing humidity	**≤0.02**	%	-
Melt temperature	**300 - 315**	°C	-
Mold temperature	**80 - 110**	°C	-
Zone 1	**295 - 305**	°C	-
Zone 2	**305 - 315**	°C	-
Zone 3	**310 - 320**	°C	-
Screw speed	**30 - 60**	rpm	-
Back pressure	**0.2 - 0.3**	MPa	-

Characteristics

Processing
Injection Molding

Additives
Flame retarding agent

Special Characteristics
Flame retardant

Regional Availability
North America, Europe, Asia Pacific